

[CLAIMS]

[1] A *Lactobacillus paracasei* CJLA0310 KCCM-10542 strain characterized of excellent lactic acid production capacity and high growth rate.

5 [2] A method for producing lactic acid with high concentration by cultivating the strain of claim 1 in a medium that comprises 160-180g/L of glucose, 15g/L of yeast extract, and 7-15g/L of peptone.

10 [3] The method according to claim 2, wherein the production ratio of D-lactic acid and L-lactic acid is adjusted by varying the cultivation temperature in a range of 33-41°C.

[4] The method according to claim 2, wherein the medium comprises corn steep powder in replacement of yeast extract.